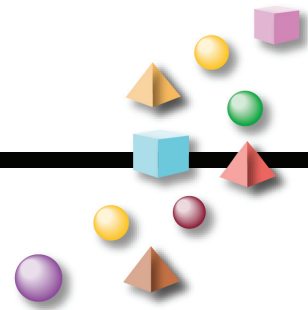
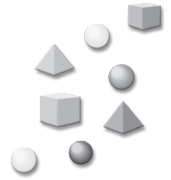

Agenda



Agent
2006





Thursday, September 21, 2006 — Methods, Toolkits, and Techniques

8:30–10:30 — Model Performance Optimization Techniques

*Chair and Discussant: Nicholson Collier, Argonne National Laboratory and PantaRei Corp.,
nick.collier@gmail.com*

- **Breeding Faster Turtles: Progress towards a NetLogo Compiler**
Forrest Sondahl, Seth Tisue, and Uri Wilensky, Northwestern University, forrest@northwestern.edu
- **Dynamic Agent Compression**
Stephen Wendel and Catherine Dibble, University of Maryland, swendel@umd.edu
- **Polyagents Model Multiple Futures Concurrently**
H. Van Dyke Parunak and Sven Brueckner, NewVectors LLC, van.parunak@newvectors.net
- **Who's Your Neighbor? Neighbor Identification for Agent-based Modeling**
Charles Macal, Argonne National Laboratory and The University of Chicago, macal@anl.gov
Thomas Howe, Argonne National Laboratory

10:45–12:15 — Advanced Modeling Methods

Chair and Discussant: Kathy Simunich, Argonne National Laboratory, simunich@anl.gov

- **Machine Learning Meets Agent-based Modeling: When Not to Go to a Bar**
William Rand, Northwestern University, wrand@northwestern.edu
- **Real-Time Evolutionary Agent Characterization and Prediction**
*H. Van Dyke Parunak, Sven Brueckner, Robert Matthews, John Sauter, and Steve Brophy,
NewVectors LLC, van.parunak@newvectors.net*
- **Agent-based Meta-Models**
Miles Parker, Argonne National Laboratory, milesparker@gmail.com
Michael North, Argonne National Laboratory and The University of Chicago
Nick Collier, Argonne National Laboratory and PantaRei Corp.
Thomas Howe, Argonne National Laboratory
Jerry Vos, Argonne National Laboratory and the University of Illinois at Urbana-Champaign

12:15–1:30 — Lunch

1:30–2:30 — Invited Speaker

*Chair and Discussant: Michael North, Argonne National Laboratory and The University of Chicago,
north@anl.gov*

- **Designing Agent-based Modeling Environments to Promote Restructuring of Scientific Representation and Education**
Uri Wilensky, Northwestern University, uri@ccl.northwestern.edu

Agenda

2:45–4:15 — Repast Toolkit Developments

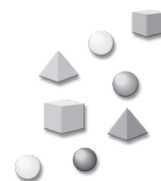
Chair and Discussant: William Rand, Northwestern University, wrand@northwestern.edu

- An Introduction to Repast Modeling Using a Simple Predator-Prey Example
Eric Tatara, Argonne National Laboratory
Michael North, Argonne National Laboratory and The University of Chicago, north@anl.gov
Thomas Howe, Argonne National Laboratory
Nick Collier, Argonne National Laboratory and PantaRei Corp.
Jerry Vos, Argonne National Laboratory and the University of Illinois at Urbana-Champaign
- Legacy Model Integration with Repast Symphony
Michael North, Argonne National Laboratory and The University of Chicago, north@anl.gov
Pam Sydelko, Argonne National Laboratory
Jerry Vos, Argonne National Laboratory and the University of Illinois at Urbana-Champaign
Thomas Howe, Argonne National Laboratory
Nick Collier, Argonne National Laboratory and PantaRei Corp.
- Containing Agents: Contexts, Projections, and Agents
Thomas Howe, Argonne National Laboratory, trhowe@anl.gov
Nick Collier, Argonne National Laboratory and PantaRei Corp.
Michael North, Argonne National Laboratory and The University of Chicago
Miles Parker, Argonne National Laboratory
Jerry Vos, Argonne National Laboratory and the University of Illinois at Urbana-Champaign

4:30–5:30 — Domain-Support Methods

Chair and Discussant: Roger Burkhart, Deere & Company, BurkhartRogerM@JohnDeere.com

- Information Resonance
Philip Barry and Matthew Koehler, MITRE Corporation, mkoehler@mitre.org
- Exploring Cities Using Agent-based Models and GIS
Andrew Crooks, University College London, andrewcrooks@ucl.ac.uk



Friday, September 22, 2006 — Computational Social Theory

8:30–9:30 — Invited Speaker

Chair and Discussant: David L. Sallach, Argonne National Laboratory and The University of Chicago, sallach@anl.gov

- It's as Simple as ABC: Agent-based Culture
Scott E. Page, University of Michigan, spage@umich.edu

9:45–11:45 — Addressing Agent Complexities

Chair and Discussant: Miles Parker, Argonne National Laboratory, milesparker@gmail.com

- Modeling Agent Emotions
H. Van Dyke Parunak, Robert Bisson, Sven Brueckner, Robert Matthews, and John Sauter, NewVectors LLC, van.parunak@newvectors.net
- Voluntary Exchange in Interpretive Heatbugs
Jonathan Ozik and David L. Sallach, Argonne National Laboratory and The University of Chicago, sallach@anl.gov
- The Semantics of Emergent Urban Centers
Robert G. Reynolds and Patrick Franzel, Wayne State University, robertreynolds@comcast.net
- Exploratory Modeling of Ensembles for Testing Decision Theory Paradigms
Lawrence A. Kuznar, Indiana University and Purdue University, kuznar@ipfw.edu

11:45–1:15 — Lunch

1:15–2:45 — Simulating Social Games

Chair and Discussant: Jonathan Ozik, Argonne National Laboratory and The University of Chicago, jozik@anl.gov

- Game Theory and Agent-based Modeling in Models of Mass Politics
Daniel Diermeier, Northwestern University, d-diermeier@kellogg.northwestern.edu
- Idealization, Uncertainty, and Heterogeneity: Game Frameworks Defined with Formal Concept Analysis
Mihai Racovitan, Northern Illinois University, racovita@math.niu.edu
David L. Sallach, Argonne National Laboratory and The University of Chicago
- Complex Multigames: Toward an Ecology of Interaction Artifacts
David L. Sallach, Argonne National Laboratory and The University of Chicago, sallach@anl.gov

Agenda

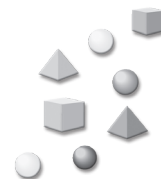
3:00–5:00 — Modeling Organizational Processes

Chair and Discussant: Thomas Howe, Argonne National Laboratory, trhowe@anl.gov

- An Agent-based Approach to Examine the Network Knowledge Advantage in Open Innovation Networks: Firm Openness and Interorganizational Network Performance
Juan A. Villarroel, Ecole Polytechnique Fédérale de Lausanne, University of Lausanne, and University of Pennsylvania, andrei.villarroel@epfl.ch
John E. Taylor, University of Texas at Austin
- Post-Merger Integration of Organizations: A Framework for Representing Agent-based Relationships
Terrill L. Frantz, Carnegie Mellon University, terrill@cs.cmu.edu
- Towards Generative Activity-based Models for Large-scale Socio-technical Simulations
Gabriel Istrate, Anders Hansson, Charles D. Tallman, Leticia Cuellar-Hengartner, and Nicholas Hengartner, Los Alamos National Laboratory, hansson@lanl.gov
- Organizational Case Study: Theory and Mathematical Specifications for an Agent-based Model (ABM)
William F. Lawless, Paine College, lawlessw@mail.paine.edu
Joseph Wood, Eisenhower Army Medical Center
Stephanie Everett and William Kennedy, Naval Research Laboratory

6:00 — Dinner (pay your own way)

Location: Szechwan Restaurant
625 N. Michigan Avenue
(enter under the red canopy on Ontario Street, which is east of Michigan Avenue)
Chicago, IL 60611
(312) 642-3900



Saturday, September 23, 2006 — Social Simulation Applications

8:30–9:30 — Invited Speaker

Chair and Discussant: Charles Macal, Argonne National Laboratory and The University of Chicago, macal@anl.gov

- From Disasters to WoW: Enabling Communities with Cyberinfrastructure
Noshir Contractor, University of Illinois at Urbana-Champaign, ncontractor2@gmail.com

9:45–11:45 — National Security

Chair and Discussant: Keven Ruby, The University of Chicago, kruby@uchicago.edu

- Sending Agents to War
Matthew Koehler, Philip Barry, and Ted Meyer, MITRE Corporation, mkoehler@mitre.org
- Impact of Multiple Intermediaries on Citizen's Attitude Formation in a Synthetic Environment
Alok R. Chaturvedi, Purdue University, alok@purdue.edu
Rashmi Chaturvedi and Chee Mun Foong, Simulex, Inc.
- Navigating Political Networks
Aaron B. Frank, BAE Systems and George Mason University, aaron.frank@baesystems.com
Michael Lack and David Scherzer, BAE Systems
Desmond Saunders-Newton, BAE Systems and the University of Southern California
- Simulating Terrorism in a Community
Matthew W. Drewek and William M. Bulleit, Michigan Tech, mwdrewek@mtu.edu

11:45–1:15 — Lunch

1:15–2:45 — Transportation and Mobility

Chair and Discussant: Roberta Davidson, Argonne National Laboratory, rdavidson@anl.gov

- Using Repast to Develop a Prototype Agent-based Pedestrian Evacuation Model
Christian J.E. Castle, University College London, c.castle@ucl.ac.uk
- Walkability in Urban Environments: Developing Geographic Agent-based Models of Neighborhood Walkability for Cancer Prevention Researchers
Reginald D. Tucker-Seeley, G.G. Bennett, and G. Sorensen, Dana Farber Cancer Institute and Harvard School of Public Health, retucker@hsph.harvard.edu
- Used Car Sector Stability in Agent-based Simulations of the Auto Market
John Sullivan, Craig Stephan, B. Goodman, and M. Everson, Ford Research, jsulliv8@ford.com

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3:00–4:30 — Social Ecology

Chair and Discussant: Pamela J. Sydelko, Argonne National Laboratory, psydelko@anl.gov

- Agent-based Modeling of Wildfire Evacuation
Joshua Thorp, Stephen Guerin, Frank Wimberly, Michelle Rossbach, Owen Densmore, Michael Agar, and Douglas Roberts, RedfishGroup, Stephen.Guerin@Redfish.com
- Exploiting Social Network Properties to Improve the Effects of Intervention on Individual Driver's Behaviour in Applying Child Vehicle Restraint
Ziad Kobti, Anne Snowdon, Tina Dunlop, and Shamual Rahaman, University of Windsor, kobti@uwindsor.ca
- Strawberry Fields Forever? Developing a Socio-Ecological Game with “Agro-Diversity ver.2” for Exploring Biodiversity Management Issues in Sustainable Agriculture
Erika Speelman and Luis García-Barrios, El Colegio de la Frontera Sur, lgarcia@scl.ecosur.mx

4:30 — Conference Adjourns